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FLUSH LABORATORIES

869799/10

CLAIM OR CLAIMS

0018

The toilet devices that I claim as new consist of:

1. Handles of these devices installed in the toilet's water tank (above the water level). Spring gears allow a dual rotation, 30 degrees to the right or to left, with a mechanical stop at the end of the swing, and a return to center. I denote the stops as Tier 1 and Tier 2. A shaft attached to the Handle protrudes into the tank.

On the shaft are Knobs installed at right angles across the shaft to link

to the internal toilet flushing mechanisms— and are part of this patent.

2. During Tier 2 flushing cycle the Handle is rotated to the left and the Flapper valve (linked to a Knob on the Handle shaft) will be pulled open. The force of gravity will push the water from the tank into the toilet bowl thus expelling both solid and liquid waste from the bowl into the soil system. When the tank is empty the Flapper valve closes and the system allows water to flow back into the tank and bowl. An air bulb in the system rises with the water level and shuts off the water supply when it reaches a preset level. The cycle is now ready again.

3. When Handle is rotated to the right for Tier 1 flushing the linkage lifts the Flapper valve and then the gravity force ousts the water from the tank. But the cycle is interrupted by the valving system that is the essence of this patent. The valving will only allow a preset amount of the tank water to be released. This amount will be sufficient to flush the liquid waste from the toilet bowl. By releasing the Handle the Flapper valve will close and the water levels in the tank and bowl will again rise to the preset point, ready for the next Tier 1 or Tier 2 flushing cycle. The savings in water, over time can be immense. There doesn't appear to have been any previous

devices claiming these features